## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-06-14-01** **Date: 15-06-2017** |
| **Customer** | : | Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Shettyhalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Construction of RCC Drains & CC Roads 3rd main & other roads at Ravindra Nagar in ward No.13 Shettyhalli Sub Division. |
| **Agency** | : | Technical Manager (west), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010 |
| **Customer's Reference** | : | BBMP/EE/DD/WO/101/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 14-06-17 |
| **Sample ID No** | : | 2017-06-14-01-01 |
| **Sample Type** | : | Ultra Tech 53 grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 (Part 1,2 3,4,5, 6,11):1988<br>IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4<br>IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5<br>IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5<br>IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6 |
| **Date of test** | : | 14-06-17 |

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | Fineness by dry sieving (%) | 2.95 | – |
| 2 | Finess by Air permeablity method ($m^2$/kg, Min) | 285.5 | 225$m^2$/kg, Min |
| 3 | Density (gm/cc) | 3.2 | – |
| 4 | Standard Consistency (%) | 29.0% | Not specified |
| 5 | Initial Setting time | 175 minutes | Not less than 30 minutes |
| 6 | Final Setting time | 260 minutes | Not more than 600 minutes |
| 7 | Soundness (Le Chatelier's Method) | 2mm | Not more than 10 mm |

**Note:**
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**Prepared by**
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

**FOR CIVIL Pro.**
**R.KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**


****End of Report****

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2017-06-26-02** **Date: 28-06-17**

**Customer** : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

**Address** : Shettyhalli Sub Division, BBMP, Bangalore.

**Project Name** : Construction of RCC Drains & CC Roads 3rd main & other roads at Ravindra Nagar in ward No.13 Shettyhalli Sub Division.

**Agency** : Technical Manager (west), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

**Customer's Reference** : BBMP/EE/DD/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 26-06-17

**Sample ID No** : 2017-06-26-02-01

**Customer ID** : Cement Concrete Pavement

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M30 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 28/06/2017

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement | M30 | 21/06/2017 | 28/06/2017 | 150.22 X 150.21 X 150.19 | 22565 | 8.302 | 505.4 | 22.4 | 22.8 |
| 2 | Cement Concrete Pavement | M30 | 21/06/2017 | 28/06/2017 | 150.24 X 150.23 X 150.20 | 22571 | 8.320 | 521.4 | 23.1 | |
| 3 | Cement Concrete Pavement | M30 | 21/06/2017 | 28/06/2017 | 150.19 X 150.18 X 150.20 | 22556 | 8.268 | 514.3 | 22.8 | |

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**Prepared by**
**Harsitha**

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2017-06-26-02** **Date: 28-06-17**

**Customer** : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

**Address** : Shettyhalli Sub Division, BBMP, Bangalore.

**Project Name** : Construction of RCC Drains & CC Roads 3rd main & other roads at Ravindra Nagar in ward No.13 Shettyhalli Sub Division.

**Agency** : Technical Manager (west), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

**Customer's Reference** : BBMP/EE/DD/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 26-06-17

**Sample ID No** : 2017-06-26-02-02

**Customer ID** : Cement Concrete Pavement

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M30 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 28/06/2017

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement | M30 | 21/06/2017 | 28/06/2017 | 150.18 X 150.19 X 150.23 | 22556 | 8.298 | 523.3 | 23.2 | 23.2 |
| 2 | Cement Concrete Pavement | M30 | 21/06/2017 | 28/06/2017 | 150.22 X 150.21 X 150.20 | 22565 | 8.321 | 530.3 | 23.5 | |
| 3 | Cement Concrete Pavement | M30 | 21/06/2017 | 28/06/2017 | 150.18 X 150.11 X 150.23 | 22544 | 8.278 | 516.2 | 22.9 | |

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**Harsitha**

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2017-06-27-01** **Date: 29-06-17**

**Customer** : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

**Address** : Shettyhalli Sub Division, BBMP, Bangalore.

**Project Name** : Construction of RCC Drains & CC Roads 3rd main & other roads at Ravindra Nagar in ward No.13 Shettyhalli Sub Division.

**Agency** : Technical Manager (west), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

**Customer's Reference** : BBMP/EE/DD/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 27-06-17

**Sample ID No** : 2017-06-27-01-01

**Customer ID** : Cement Concrete Pavement

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M30 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 29/06/2017

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement | M30 | 22/06/2017 | 29/06/2017 | 150.25 X 150.28 X 150.21 | 22580 | 8.369 | 523.8 | 23.2 | 23.3 |
| 2 | Cement Concrete Pavement | M30 | 22/06/2017 | 29/06/2017 | 150.24 X 150.26 X 150.20 | 22575 | 8.388 | 519.2 | 23.0 | |
| 3 | Cement Concrete Pavement | M30 | 22/06/2017 | 29/06/2017 | 150.14 X 150.17 X 150.22 | 22547 | 8.270 | 534.4 | 23.7 | |

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Certificate No.: T- 4358

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2017-06-22-01** **Date: 26-06-17**

**Customer** : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

**Address** : Shettyhalli Sub Division, BBMP, Bangalore.

**Project Name** : Construction of RCC Drains & CC Roads 3rd main & other roads at Ravindra Nagar in ward No.13 Shettyhalli Sub Division.

**Agency** : Technical Manager (west), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

**Customer's Reference** : BBMP/EE/DD/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 22-06-17

**Sample ID No** : 2017-06-22-01-01

**Customer ID** : Drain Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 26/06/2017

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Concrete | M20 | 19/06/2017 | 26/06/2017 | 150.22 X 150.24 X 150.23 | 22569 | 8.333 | 395.0 | 17.5 | 17.5 |
| 2 | Drain Concrete | M20 | 19/06/2017 | 26/06/2017 | 150.11 X 150.14 X 150.15 | 22538 | 8.234 | 398.9 | 17.7 | |
| 3 | Drain Concrete | M20 | 19/06/2017 | 26/06/2017 | 150.12 X 150.21 X 150.19 | 22550 | 8.276 | 390.1 | 17.3 | |

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**Harsitha**

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**Quality Manager**


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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2017-06-22-01** **Date: 17-07-17**

**Customer** : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

**Address** : Shettyhalli Sub Division, BBMP, Bangalore.

**Project Name** : Construction of RCC Drains & CC Roads 3rd main & other roads at Ravindra Nagar in ward No.13 Shettyhalli Sub Division.

**Agency** : Technical Manager (west), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

**Customer's Reference** : BBMP/EE/DD/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 22-06-17

**Sample ID No** : 2017-06-22-01-02

**Customer ID** : Drain Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 17/07/2017

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Concrete | M20 | 19/06/2017 | 17/07/2017 | 150.20 X 150.24 X 150.21 | 22566 | 8.298 | 543.8 | 24.1 | 23.7 |
| 2 | Drain Concrete | M20 | 19/06/2017 | 17/07/2017 | 150.11 X 150.14 X 150.15 | 22538 | 8.256 | 527.4 | 23.4 | |
| 3 | Drain Concrete | M20 | 19/06/2017 | 17/07/2017 | 150.13 X 150.17 X 150.19 | 22545 | 8.232 | 534.3 | 23.7 | |

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**Harsitha**

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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-06-22-01** **Date: 27-06-17** |
| **Customer** | : | Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Shettyhalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Construction of RCC Drains & CC Roads 3rd main & other roads at Ravindra Nagar in ward No.13 Shettyhalli Sub Division. |
| **Agency** | : | Technical Manager (west), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010. |
| **Customer's Reference** | : | BBMP/EE/DD/WO/101/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 22-06-17 |
| **Sample ID No** | : | 2017-06-22-01-03 |
| **Customer ID** | : | Drain Concrete |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M20 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 27/06/2017 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Concrete | M20 | 20/06/2017 | 27/06/2017 | 150.22 X 150.24 X 150.23 | 22569 | 8.436 | 417.5 | 18.5 | 18.2 |
| 2 | Drain Concrete | M20 | 20/06/2017 | 27/06/2017 | 150.11 X 150.24 X 150.25 | 22553 | 8.334 | 408.2 | 18.1 | |
| 3 | Drain Concrete | M20 | 20/06/2017 | 27/06/2017 | 150.22 X 150.21 X 150.19 | 22565 | 8.290 | 403.9 | 17.9 | |

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**Harsitha**

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Certificate No.: T- 4358

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2017-06-22-01** **Date: 18-07-17**

**Customer** : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

**Address** : Shettyhalli Sub Division, BBMP, Bangalore.

**Project Name** : Construction of RCC Drains & CC Roads 3rd main & other roads at Ravindra Nagar in ward No.13 Shettyhalli Sub Division.

**Agency** : Technical Manager (west), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

**Customer's Reference** : BBMP/EE/DD/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 22-06-17

**Sample ID No** : 2017-06-22-01-04

**Customer ID** : Drain Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 18/07/2017

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Concrete | M20 | 20/06/2017 | 18/07/2017 | 150.20 X 150.24 X 150.21 | 22566 | 8.398 | 498.7 | 22.1 | 22.1 |
| 2 | Drain Concrete | M20 | 20/06/2017 | 18/07/2017 | 150.11 X 150.14 X 150.15 | 22538 | 8.216 | 504.8 | 22.4 | |
| 3 | Drain Concrete | M20 | 20/06/2017 | 18/07/2017 | 150.13 X 150.17 X 150.19 | 22545 | 8.222 | 489.2 | 21.7 | |

**Note:**
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**Prepared by**
**Harsitha**

CIVIL Pro Sig..... Date..... BANGALORE

**FOR CIVIL Pro.**

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**Quality Manager**


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# TEST REPORT OF PRECAST COVER SLAB

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-06-16-01** **Date: 19-06-17** |
| **Customer** | : | Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Shettyhalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Construction of RCC Drains & CC Roads 3rd main & other roads at Ravindra Nagar in ward No.13 Shettyhalli Sub Division. |
| **Agency** | : | Technical Manager (west), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010. |
| **Customer's Reference** | : | BBMP/EE/DD/WO/101/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 16-06-17 |
| **Sample ID No** | : | 2017-06-16-01-02 |
| **Sample Type /Size** | : | Precast Cover Slab |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete |
| **Date of test** | : | 16/06/2017 |

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | (mm) | (Sq.mm) | (KN) | ($N/mm^2$) | ($N/mm^2$) | ($N/mm^2$) |
| 1 | Cover Slab-1 | 75.53 | 100.47 | 1.116 | 4480 | 79.9 | 17.8 | 16.6 | 20.7 |
| 2 | Cover Slab-2 | 75.51 | 100.49 | 1.122 | 4477 | 83.3 | 18.6 | 17.3 | 21.6 |
| 3 | Cover Slab-3 | 75.52 | 100.50 | 1.118 | 4478 | 83.5 | 18.6 | 17.3 | 21.7 |

**Note:**
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**Prepared by**
Harshitha

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**Quality Manager**


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# TEST RESULTS OF STEEL

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-06-16-01** **Date: 17-06-17** |
| **Customer** | : | Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Shettyhalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Construction of RCC Drains & CC Roads 3rd main & other roads at Ravindra Nagar in ward No.13 Shettyhalli Sub Division. |
| **Agency** | : | Technical Manager (west), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010. |
| **Customer's Reference** | : | BBMP/EE/DD/WO/101/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 16-06-17 |
| **Sample ID No** | : | 2017-06-16-01-01 |
| **Sample Type** | : | JSW |
| **Reference to BIS codes** | : | IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012. |
| **Date of test:** | : | 16-06-17 |

| Sl.No | Identification of sample | Grade of the sample | Diameter of the steel bar | Weight of the sample | Yield stress | Tensile strength | Elongation | Bend test | Rebend test |
|---|---|---|---|---|---|---|---|---|---|
| | | | (mm) | (kg/m) | (N/mm2) | (N/mm2) | (%) | | |
| 1 | JSW | Fe500 | 8 | 0.392 | 545 | 675 | 21.0% | Satisfactory | Satisfactory |
| 2 | JSW | Fe500 | 10 | 0.612 | 570 | 680 | 19.0% | Satisfactory | Satisfactory |

**Note:**
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

**R KARTHIK RECHAN**
**Authorized Signatory**
**Quality Manager**

**Prepared By:**
Harshitha

AE-B


*End of Report*

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

## TEST RESULTS OF GRADATION FOR GSB
## (IS 2386:(Part 1) 1963 (RA2011)

| | | |
|---|---|---|
| **Lab ID** | : | **CP-RW-2017-06-16-01** **Date: 17-06-17** |
| **Customer** | : | Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Shettyhalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Construction of RCC Drains & CC Roads 3rd main & other roads at Ravindra Nagar in ward No.13 Shettyhalli Sub Division. |
| **Agency** | : | Technical Manager (west), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010. |
| **Customer Reference** | : | BBMP/EE/DD/WO/101/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 16-06-17 |
| **Sample ID No** | : | 2017-06-16-01-01 |
| **Type of Mix** | : | GSB (Granular Sub Base) |
| **Date of test** | : | 16-06-17 |
| **Oven Dry Weight** | : | 10120 Grams |

| IS Sieve Size(mm) | Weight Retained (gm) | Comulative Weight Retained (gm) | Comulative % of Retained | Comulative % of Passing | Spec. Limit Vide Table 400.1 MORTH Specification |
|---|---|---|---|---|---|
| 75 | 0 | 0 | 0 | 100 | 100 |
| 53 | 996 | 996 | 9.84 | 90.16 | 80-100 |
| 26.5 | 1686 | 2682 | 26.50 | 73.50 | 55-90 |
| 9.5 | 1292 | 3974 | 39.27 | 60.73 | 35-65 |
| 4.75 | 1490 | 5464 | 53.99 | 46.01 | 25-55 |
| 2.36 | 1764 | 7228 | 71.42 | 28.58 | 20-40 |
| 0.425 | 1666 | 8894 | 87.89 | 12.11 | 10-25 |
| 0.075 | 896 | 9790 | 96.74 | 3.26 | 0-5 |

**TESTS ON FILLER SCREEN MATERIALS**

| Sl no | Particulars | Test results | Spec.Limit Vide Table 400.2 MORTH Specification |
|---|---|---|---|
| 1 | Liquid Limit, % | 21.33% | Maximum 25 |
| 2 | Plasticity index, % | Non plastic | Maximum 6 |

**Note:-**
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**R KARTHIK RECHAN**
**Authorized Signatory**
**Quality Manager**

**Prepared By:**
Harshitha

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*End of Report*